

REMARKS

Claims 1-33 were pending in the present application. Claims 32-33 have been cancelled. Claims 1, 2, 6, 7, 11, 12, 16, 17, 21, 22, 26, 27 and 31 have been amended. Claims 34-37 have been added. Accordingly, claims 1-31 and 34-37 are now pending in the application. The Applicant notes that the amendments have been made in accordance with the new Revised Amendment Format.

Claims 1-4, 6-9, 11-13, 16-19, 21-24, 26-28 and 31-33 stand rejected under 35 U.S.C. 102(b) as being anticipated by Christiansen (U.S. Patent No. 5,915,253) (hereinafter 'Christiansen'). Applicant respectfully traverses these rejections.

Claims 5, 10, 14, 15, 20, 25, 29 and 30 stand rejected under 35 U.S.C. 103(a) as unpatentable over Christiansen in view of Napolitano et al. (U.S. Patent No. 6,219,693) (hereinafter 'Napolitano'). Applicant respectfully traverses these rejections.

Applicant discloses at page 8 line 28 through page 9 line 2 “The files in a given directory may be allocated to different volumes based on the storage characteristics desired for each file, but the files may still logically reside in the same directory.” The Applicant also discloses at page 6 lines 18-19 “File system 110 may include entries for each file regardless of which storage device it is physically stored on.” Further, the Applicant discloses at page 7 lines 1-2 “a logical volume may be a single storage entity or multiple storage entities, configured to appear like a single entity to the file system.” Still further Applicant discloses at page 9 line 28 – page 9 line 2 “The files in a given directory may be allocated to different volumes based on the storage characteristics desired for each file, but the files may still logically reside in the same directory.” (Emphasis added).

Accordingly, Applicant's claim 1 recites a data storage system comprising in pertinent part,

“a first volume having a first storage volume characteristic;

a second volume having a second storage volume characteristic; ... wherein said file system includes a directory structure having a directory allocated to said first volume and said second volume, wherein said directory includes an entry corresponding to a file maintained by said file system, and wherein said entry includes a field containing a volume identifier indicative of which of said first or said second volumes said file is stored within." (Emphasis added).

Christiansen is directed to a method and system for implementing objects in a storage system. At col. 12, lines 8-22, Christiansen discloses

"FIG. 7 is a schematic diagram of volume object 180 as it is represented on persistent storage according to one embodiment of this invention. A volume object includes volume metadata as well as volume object data. Volume metadata 192 includes volume data reference 194 which is a pointer to the volume object data associated with volume object 180. A volume object's data comprises the objects owned by that volume. Directories of the names of objects can be implemented in a container object which maintains the name of the objects of a particular directory in a hierarchical tree. For example, volume data 196 includes object 26, object 30, and object 34. Thus, by maintaining a reference to a particular volume one can access each object associated with that volume."

From the foregoing, Christiansen does not teach or disclose "wherein said file system includes a directory structure having a directory allocated to said first volume and said second volume, wherein said directory includes an entry corresponding to a file maintained by said file system, and wherein said entry includes a field containing a volume identifier indicative of which of said first or said second volumes said file is stored within" as recited in Applicant's claim 1.

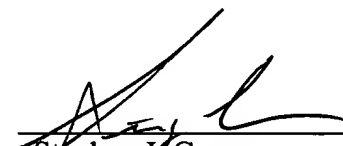
Napolitano is directed to a file array storage architecture having file system distributed across a data processing platform. Applicant can find no reference in Napolitano to any directory structure much less "a directory structure having a directory allocated to said first volume and said second volume, wherein said directory includes an entry corresponding to a file maintained by said file system, and wherein said entry includes a field containing a volume identifier indicative of which of said first or said second volumes said file is stored within" as recited in Applicant's claim 1.

CONCLUSION

Applicant submits the application is in condition for allowance, and an early notice to that effect is requested.

If any fees are due, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert, & Goetzel, P.C. Deposit Account No. 501505/5181-59200/BNK.

Respectfully submitted,



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